

## **WHAT IS CLAIMED IS:**

1. A box chisel, comprising:
  - a) a hollow structure having a proximal end and a distal end, the hollow structure including:
    - i) a first side and a second opposite side, each of the first and second sides including a cutting edge located at the distal end of the hollow structure;
    - ii) at least a first rasping structure formed in one of the first and second sides.
2. The box chisel of claim 1, wherein the first rasping structure formed in the one of the first and second sides includes a plurality of teeth.
3. The box chisel of claim 2, wherein the one of the first and second sides further includes a plurality of slots extending through the hollow structure.
4. The box chisel of claim 3, wherein the slots are located in an alternating pattern between the plurality of teeth.
5. The box chisel of claim 1, wherein the first rasping structure formed in the one of the first and second sides includes a cross-hatched pattern construction.
6. The box chisel of claim 1, further including a second rasping structure formed in the other of the first and second sides.
7. The box chisel of claim 1, further including an arcuate region formed in one of the first and second sides.
8. A chisel instrument, comprising:

- a) an elongated structure having a proximal end and a distal end, the elongated structure including:
- i) a cutting edge located at the distal end of the elongated structure;
  - ii) a first side facing in an opposite direction from a second side; and
  - iii) rasping structure formed in at least one of the first and second sides adjacent the distal end of the elongated structure.

9. The chisel instrument of claim 8, wherein the elongated structure further includes a cross-section profile having a shaped region configured to match a non-planar implant profile, the shaped region being formed within at least one of the first and second sides of the elongated structure.

10. The chisel instrument of claim 9, wherein the shaped region includes a curvature extending along a length of the elongated structure.

11. The chisel instrument of claim 8, wherein the rasping structure includes a plurality of teeth formed in the one side.

12. The chisel instrument of claim 11 wherein the rasping structure further includes a plurality of slots extending through the one side, each of the slots being located in an alternating pattern between the plurality of teeth.

13. The chisel instrument of claim 11, wherein each of the slots is sized and configured such that material removed by the plurality of teeth pass through the slots into a central open region of the elongated structure.

14. The chisel instrument of claim 8, wherein the elongated structure includes rasping structure formed in each of the first and second sides.

15. The chisel instrument of claim 14, wherein each of the rasping structure formed in each of the first and second sides includes a plurality of teeth.

16. The chisel instrument of claim 8, wherein the rasping structure includes a roughened surface.
17. The chisel instrument of claim 16, wherein the roughened surface is a cross-hatched pattern construction formed on the one of the first and second sides.
18. The chisel instrument of claim 14, wherein each of the rasping structures formed in each of the first and second sides includes a roughened surface.
19. The chisel instrument of claim 9, wherein the rasping structure is formed across the shaped region of the elongated structure.
20. The chisel instrument of claim 19, wherein the rasping structure includes a plurality of teeth formed in the first side, the teeth defining a portion of the shaped region of the elongated structure.
21. The chisel instrument of claim 8, wherein the elongated structure includes a hollow construction.
22. A surgical instrument for expanding an expandable implant, the surgical instrument comprising:
- a) an instrument structure having a implant mounting arrangement, the mounting arrangement including:
    - i) first and second portions adapted to be inserted into the expandable implant;
    - b) a sliding member, configured to slide relative to the instrument structure, the slide member being configured to expand the implant mounting arrangement such that the first and second portions expand a mounted expandable implant.

23. The surgical instrument of claim 22, wherein the first and second portions of the mounting arrangement are configured to move relative to one another in an expansion direction to expand the mounted expandable implant.
24. The surgical instrument of claim 23, wherein the expansion direction is a generally linear direction.
25. The surgical instrument of claim 22, wherein the sliding member includes a wedge configured to insert between the first and second portions of the implant mounting arrangement.
26. A surgical instrument for expanding an expandable implant, the surgical instrument comprising:
- a) a mounting structure configured for receipt of the expandable implant;
  - b) a handle interconnected to the mounting structure;
  - c) an actuator configured to expand the mounting structure in a linear direction;
  - d) wherein expansion of the mounting structure in the linear direction causes an expandable implant mounted on the mounting structure to expand from a non-expanded configuration to an expanded configuration.
27. The surgical instrument of claim 26, wherein the mounting structure including a first member and a second member, the first and second members being moveable relative to one another in the linear direction.
28. The surgical instrument of claim 27, further including a linkage assembly interconnected to the first and second members and the actuator.
29. The surgical instrument of claim 28, wherein the actuator is configured to rotate relative to the handle, wherein rotating the actuator causes the first and second member to move relative to one another in the linear direction.

30. The surgical instrument of claim 28, wherein the actuator is configured to axially slide relative to the handle, wherein sliding the actuator causes the first and second member to move relative to one another in the linear direction.

31. The surgical instrument of claim 26, wherein the mounting structure includes a sheath, the sheath including an expandable outer construction defining an interior region, the interior region being configured for receipt of the actuator.

32. The surgical instrument of claim 31, wherein the actuator includes a wedge sized to expand the expandable outer construction of the sheath when inserted within the interior region of the sheath.

33. A surgical instrument for expanding an expandable implant, the surgical instrument comprising:

- a) a body defining a longitudinal axis extending between a proximal end and a distal end, the body defining a channel;
- b) mounting structure located at the distal end of the body, the mounting structure including a first member and a second member;
- c) a handle located at the proximal end of the body;
- d) an actuator configured to slide within the channel of the body;
- e) wherein sliding the actuator toward the distal end of the body causes the first and second members to become spaced apart from one another.

34. A surgical instrument for expanding an expandable implant, the surgical instrument comprising:

- a) an elongated housing;
- b) a rail member interconnected to the elongated housing;
- c) a channel defined by the elongated housing and the rail member;

d) an actuator positionable within the channel, the actuator being configured to space apart the elongated housing and the rail member to thereby expand the expandable implant from a non-expanded configuration to an expanded configuration.

35. The surgical instrument of claim 34, further including a handle located adjacent to the proximal end for operation of the surgical instrument.

36. The surgical instrument of claim 34, further including mounting structure defined by a distal end of the elongated housing and a distal end of the rail member, the mounting structure being configured for receipt of the expandable implant.

37. The surgical instrument of claim 36, wherein the mounting structure includes a projection extending outward from the distal end of the elongated housing.

38. The surgical instrument of claim 37, wherein the mounting structure includes a shaped tip extending outward from the distal end of the rail member.

39. The surgical instrument of claim 38, wherein the shaped tip includes a hook configured to engage and pull the implant after expansion.

40. The surgical instrument of claim 34, wherein the channel includes a ramped portion.

41. The surgical instrument of claim 40, wherein the actuator includes an inclined portion, the included portion configured to contact the ramped portion of the channel to spatially separate the housing from the rail member to expand the expandable implant.

42. The surgical instrument of claim 34, wherein the actuator includes a first inclined portion and a second inclined portion, the first inclined portion configured to contact a first ramped surface of the channel, the second inclined portion configured to contact a second ramped surface of the channel.

43. The surgical instrument of claim 42, wherein the first inclined portion is formed adjacent to a distal end of the actuator and the second inclined portion is formed adjacent to the proximal end of the actuator.

44. The surgical instrument of claim 43, wherein the first ramped surface of the channel is formed in the rail member adjacent to the distal end of the rail member.

45. The surgical instrument of claim 44, wherein the second ramped surface of the channel is formed in the rail member adjacent to the proximal end of the rail member.

46. The surgical instrument of claim 45, wherein the first and second inclined portions and the first and second ramped surfaces are positioned such that proximal and distal ends of the actuator rise simultaneously as the actuator slides along the channel in a first direction.

47. A surgical instrument, comprising:

a) a body defining a longitudinal axis extending between a proximal end and a distal end;

b) mounting structure located at the distal end of the body and configured to insert within an opening of an implant, the mounting structure including a first member and a second member;

c) a handle located at the proximal end of the body;

d) a moveable sleeve positioned between the handle and the mounting structure;

e) wherein moving the sleeve toward the distal end of the body causes the first and second members to move toward one another.

48. A surgical instrument, comprising:

- a) an engagement member having a proximal end and a distal end, the engagement member including first and second cantilevers extending toward the distal end, the distal end being sized and configured for insertion into an opening of an implant;
- b) a handle coupled to the proximal end of the engagement member;
- c) a sleeve positioned to slide along the engagement member, the sleeve is positionable at:
  - i) a first position wherein the first and second cantilevers are spaced apart from one another a first distance, and
  - ii) a second position wherein the first and second cantilevers are spaced apart from one another a second distance, the second distance being less than the first distance.

49. The surgical instrument of claim 48, wherein the first and second cantilevers define handling structure configured to grasp an expandable implant

50. The surgical instrument of claim 49, wherein the handling structure includes projection extending outward from the distal end of the engagement structure, the projections being configured to grasp and maneuver the expandable implant.

51. A surgical instrument, comprising:

- a) a scissor arrangement including a first arm connected to a second arm at a pivot location located between a proximal end and a distal end of the scissor arrangement;
- b) mounting structure located at the distal end of the scissor arrangement, the mounting structure being defined by shaped tips of the first and second arms, the mounting structure being configured to insert within an opening of an implant, and the shaped tips being configured to grasp structure formed within the opening of the implant;
- c) whereby pivoting the first and second arms, and the shaped tips towards one another causes a mounted implant to collapse from a first height to a reduced height.

52. A kit for use in a surgical implant procedure, the kit comprising:



- a) at least a first chisel configured for implant site preparation;
- b) an expandable implant;
- c) a first instrument having a proximal end and a distal end, the distal end including implant mounting structure, the first instrument being configured to expand the expandable implant from a non-expanded configuration to an expanded configuration;
- d) a second instrument having a proximal end and a distal end, the distal end including tips for engaging the expandable implant to orient the expandable implant in a non-expanded configuration.

53. The kit of claim 52, further including a second box chisel, the first box chisel being configured for more invasive implant site preparation, the second box chisel being configured for less invasive implant site preparation than the first box chisel.

54. The kit of claim 53, wherein the first box chisel includes teeth arranged to remove material from adjacent vertebral elements.

55. The kit of claim 53, wherein the second box chisel includes a roughened surface configured to scrape adjacent vertebral elements.

56. The kit of claim 52, wherein the first instrument includes a first member and a second member configured to selectively move in opposite directions to expand the expandable implant from the non-expanded orientation to the expanded orientation.

57. The kit of claim 52, wherein the tips of the second instrument are configured to engage a first member of the expandable implant to flex the first member relative to a second member of the expandable implant for orienting the expandable implant in the non-expanded configuration.

58. The kit of claim 57, wherein the second instrument is configured to flex the first member to disengage a locking arrangement of the expandable implant for collapsing the expandable implant from the expanded configuration to the non-expanded configuration.

59. The kit of claim 57, wherein the second instrument is configured to flex the first member to an orientation for assembling the first member relative to the second member in the non-expanded configuration.